

## SYSTEM AND METHOD FOR SIMULTANEOUS DEFICIT ROUND ROBIN PRIORITIZATION

### ABSTRACT OF THE INVENTION

5           A system and method have been provided for prioritizing  
queued information packets having a variable number of cells. A  
simultaneous deficit round robin (DRR) analysis occurs in the course of  
several selection cycles. Each queue has an associated increment value.  
The packet lengths in each queue are simultaneously compared to an  
10   accumulation total in every selection cycle. If all the packets have lengths  
greater than their corresponding accumulation totals, each accumulation  
total is incremented and the selection process is repeated. If one of the  
information packets has a number of cells less than, or equal to its  
corresponding accumulation total, it is selected. In case multiple  
15   information packets are eligible, a variety of selection criteria can be used  
to break a tie. For example, the eligible information packet with the  
highest class of service (COS) can be selected. The information packet is  
completed transferred before another selection process is begun.

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